ABSTRACT

A device for serving as a wheel for motor vehicles such as a car or truck, and in some cases an Air Craft, where this wheel has the novel features of having its tire tread replaceable when it is worn out via its unique rims and molded tire features. The tire has an alternate feature of a unique internal structure that prevents the tire from "going flat" or "blowing out" when it is punctured or cut. The tire has one variation of its configuration that allows it to be used with a Consumer's existing rims. Another novel feature of the tire's "Non-Flat Tire" system(s) is it can be retro-fitted into a consumer's existing tire by mating the consumer's tires with this invention's "Non-Flat Tire" internal element and special rim. The invention includes a variation of its "Non-Flat Tire" system, using novel spring-like materials for its tire core that is shaped similar to a tire's inner tube, and functions like an "air- filled" tire, but the absence of the use of air in this unique configuration gives it the "Flat Tire Prevention" effect. The variation using the spring-material as an inner tube can be assisted by an inner tube device containing a myriad if "Air Cells", because the inner tube made of spring-like material is hollow, thus allowing a supplemental inner tube-type device containing "Air Cells" can be fitted inside. Some variations of the invention are unlike existing tires, where this novel tire has "side walls" that are made from elastic materials that do not rupture on impact and do not burn. These "side walls" are considered to be lighter than those of existing tires, less expensive, and re-useable/repairable. They are capable of accepting many novel hues and colors. The various tires in this invention appear to have "Vandal Proof" properties, and are safer t than existing tires because they do not "blow-out", because they have a collection of individual "Cells" of air,

that are considerably more numerous than the air chamber of conventional tires, and in some variations of the invention, use no air at all. This invention is composed of a tire that is "modular", where the consumer can "design" the properties of the tire, meaning the tire tread pattern can be inter-changed to accommodate various road conditions (i.e. Mud and Snow tread, "Rain Tire" tread, "High Speed Driving" tread, and the like). The invention also provides "Conservation" capabilities, with respect to saving materials by facilitating the repair/re-manufacturing of its tread and "Air Chambers", repeatedly. The invention has one variation that has a mechanical system that generates its "Tire Inflation Pressure" by appropriately reducing the tires overall "Air Chamber" volume, during the assembling of the tire to the rim.

I:\9000\9692\PATENTS\6807(Reg-MODULAR TIRE)